Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): A method of delivering a therapeutic composition to a target site comprising:

delivering the delivering a therapeutic composition comprising an oligonucleotide covalently attached to a light activated drug genetic material through a catheter to the target site; and

delivering ultrasound energy to the target site,

wherein the catheter has an elongated catheter body with at least one axial lumen for delivery of the therapeutic compound genetic material therethrough, the catheter comprising at least one ultrasound transducer coupled to an energy source, wherein the at least one ultrasound transducer generates a sufficient—level of ultrasound energy that is sufficient to cause the ultrasound energy to penetrate tissue at the target site;

wherein the target site comprises a DNA or RNA; and

wherein the oligonucleotide is complementary to the DNA or RNA of the target site.

Claim 2-3 (cancelled).

Claim 4 (currently amended): The method of claim 1, wherein the genetic material oligonucleotide is synthetic.

Claim 5 (currently amended): The method of claim 1, wherein the genetic material oligonucleotide is recombinant.

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Claim 6 (original): The method of claim 1, wherein the therapeutic composition further comprises a microbubble.

Claim 7-8 (cancelled).

Claim 9 (currently amended): The method of claim 8, claim 1, wherein the oligonucleotide has an affinity for a DNA in the target site.

Claim 10 (original): The method of claim 9, wherein the DNA is a viral DNA.

Claim 11 (original): The method of claim 9, wherein the DNA is an oncogene DNA.

Claim 12 (original): The method of claim 9, wherein the oligonucleotide is an antisense oligonucleotide.

Claim 13 (cancelled).

Claim 14 (currently amended): A therapeutic composition comprising a light activated drug in combination with covalently bonded to a nucleic acid.

Claim 15 (currently amended): The method of claim 1, <u>further comprising at least one support member that supports the at least one ultrasound transducer in a position about a circumference of the elongated catheter body, thereby defining wherein the at least one ultrasound assembly is positioned about a circumference of the elongated catheter body, the at least one support member supporting the at least one ultrasound transducer so as to define a chamber between the at least one <u>ultrasound</u> transducer and the <u>outer-circumference</u> of the elongated catheter body.</u>

Claim 16 (original): The method of claim 15, wherein the chamber is filled with a media that absorbs ultrasound energy such that a transmission of ultrasound energy from the ultrasound transducer to the elongated catheter body is reduced.

Claim 17 (original): The method of claim 16, wherein the media is a gas selected from the group consisting of helium, argon, air and nitrogen.

Claim 18 (original): The method of claim 16, wherein the media is a solid media selected from the group consisting of silicon and rubber.

Claim 19 (original): The method of claim 15, wherein the chamber is evacuated using a negative pressure.

Claim 20 (currently amended): The method of claim 1, wherein the catheter further comprises:

a balloon positioned about <u>a circumference</u> the <u>circumference</u> of the elongated catheter body;

at least one media delivery port in fluid communication with the at least one axial lumen for delivery of an expansion media to expand the balloon; and

at least one media delivery port in fluid communication with the at least one axial lumen for delivery of a medicament.

Claim 21 (currently amended): The method of claim 20, wherein the balloon is positioned about the at least one ultrasound transducer-assembly.

Claim 22 (currently amended): The method of claim 20, wherein the balloon is positioned about the circumference of the elongated catheter body adjacent to the ultrasound transducer-assembly.

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Claim 23 (original): The method of claim 1, wherein the ultrasound transducer is configured to deliver ultrasound energy of approximately 0.3 W/cm² at a frequency of approximately 1.3 MHz.

Claim 24 (currently amended): The method of claim 20, wherein the balloon comprises a selectively permeable membrane pressure is used to drive the media across the balloon.

Claim 25 (original): The method of claim 6, wherein the microbubble comprises a lipid substrate.

Claim 26 (original): The method of claim 25, wherein the lipid substrate comprises a liposome.

Claim 27 (currently amended): The method of claim 6, wherein an interior the interior of the microbubble includes a gas.